

73. Specific Application System, first stage



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[Probabilidad Imposible: Specific Application System, first stage](#)

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The [Application System](#) under the theory of [Impossible Probability](#) is a system which consists of Artificial Engineering (Designer of Artificial Intelligence and the Intelligent Robotic Mechanic) and all those processes within the third stage, of any [intelligence working by deduction](#), responsible for the application of the instructions provided by the Decision System. In turn, the [Decision System](#) has previously projected the decisions according to the results given by the [Impact of the Defect](#) and the [Effective Distribution](#) on the [mathematical](#) models, representations of [the world](#), along with the results given by [Probability](#) and Deduction, trigonometry, and solving mathematical problems. Mathematical models are made of all the [rational hypotheses](#) previously made by the [Artificial Research by Deduction](#) in the second stage, matching a set of [data](#) and pure reasons, data stored in the first stage as a database, in any intelligence working by deduction.

The only new idea that I have introduced in the last post is the distinction between: the Artificial Engineering as an inner application sub-system, and as an outer application sub-system all those processes within the third stage, of any intelligence working by deduction, responsible for the application of the instructions provided by the Decision System.

The reason why both sub-systems belong to the Application System is due to the necessity that the Application System, as responsible for the application of outer instructions (those ones related to the real world), in case that the Application System not finding applications or robotic devices available to match for some instructions, the Application System could have the possibility to create from scratch those not existing applications or robotic devices for new instructions provided by the Decisional System, in order to create the Artificial Engineering (as sub-system within the Application System) those applications or robotic devices for these instructions, to carry out, in the most successful way, their related decisions.

In addition, the possibility of avoiding problems in the performance of instructions due to a lack of or poor maintenance of the applications or robotic devices, through the

permanent maintenance of the existing applications or robotic devices by Artificial Engineering as a sub-system within the Application System.

If the Artificial Engineering is defined as sub-system within the Application System to create or take care of the maintenance of applications and robotic devices working for the Application System, the kind of instructions that the Artificial Engineering will carry out are going to be inner instructions, understanding inner in terms of inside of the Application System, although finally the Artificial Engineering could carry out projects, for the creation of new intelligences and programs, as requested by the Learning System as well as the artificial comprehension.

In opposition to these inner instructions carried out by the Artificial Engineering, are the outer instructions whose main purpose is to transform the real world, and are instructions filed in the database of the Application System by the Decisional System..

The Artificial Engineering as an inner application sub-system is carrying out projects related to the creation and maintenance of intelligences, programs, applications and robotic devices, to work inside of that, Specific or Global, Artificial Intelligence, by Deduction, within the Application System is working for.

While the outer application sub-system will carry out all the instructions sent by the Decision System, whose main purpose is to better and improve the real world, according to the decisions made upon the mathematical representations of the world.

In the analysis of the Application System, the first range of posts will be focused on the outer application sub-system, analysing how the outer application sub-system carries out the instructions, making all the assessments, sending reports to the Decisional System and the Learning System for further decisions. Afterwards, I will analyse the inner application sub-system focused mainly on the Artificial Engineering, consisting of the Designer of Artificial Intelligence and the Intelligent Robotic Mechanic.

In this first range of posts related to the outer application sub-system, I will analyse the three stages of database of instructions, implementation of instructions, and further decisions, corresponding to the first, second, and third stages of database, computation, and decision, in this case applied to the outer application sub-system.

Understanding the outer application sub-system as the third step in the third stage in any, [Specific or Global, Artificial Intelligence](#) by Deduction, where the first stage is the (global, specific, particular) matrix, the second stage the deduction process matching set of data and pure reasons to make rational hypothesis, and the third stage of decision consists of four steps: [Modelling System](#) (modelling the rational hypothesis to make decisions), [Decisional System](#) (projecting the decisions for their authorization and getting ready the instructions), the [Application System](#) (matching instructions and applications and robotic devices available, or creation of new applications or robotic devices for instructions not matching with the available applications or robotic devices), Learning System (global assessment of the whole process).

According to my proposal for the construction of the [Global Artificial Intelligence](#), then the outer application sub-system within the Application System, is the responsible to match instructions provided by the Decisional System and applications and robotic devices available, to carry out in the most successful way every instruction necessary to complete a decision subdivided in a set of instructions by the Decisional System.

Only in case that for any instruction there is no available application or robotic device, the outer application sub-system should order to the inner application sub-system, the Artificial Engineering, the construction of a specific application or robotic device, for that specific instruction, without the right application or robotic device available yet.

For the analysis of the outer application sub-system within the Application System I will develop how the outer application sub-system works in the first phase, specific Application System within the [Specific Artificial Intelligence by Deduction](#), third phase [standardized Application System](#) within the [standardized Global Artificial Intelligence](#), fifth phase [particular Application System](#) within [particular programs](#), sixth phase integrated Application System within the [integrated Global Artificial Intelligence](#).

In the development of these posts, in the first range of posts dedicated to the outer application sub-system, due to this sub-system is in essence the continuation of the transformation of the flow along the three stages in the third stage of any intelligence by deduction: the flow of data transformed into a flow of rational hypothesis, the flow of rational hypothesis transformed into a flow of models, the flow of models transformed into a flow of decisions, the flow of decisions transformed into a flow of projects, the flow of projects transformed into a flow of instructions, and now the flow of instructions

transformed into a flow of learnings; going on with the flow, in the same way that the first step in the third stage by Deduction has been called Modelling System, second step Decision System, the outer application sub-system within the Application System will be called as only Application System, but being aware that in reality is a sub-system co-working together with the inner sub-system formed by the Artificial Engineering, ending up the flow of all these steps in the third stage by deduction with the flow of learnings in the Learning System, whose main responsibility is to learn the world, understanding at this level the inner world, the mirror is not the mind, the mirror is not the representation, the mirror is the real world, if the real world is only a mirror, the real learning is not outside, is inside, the inner world is the real one to learn: from the idealistic point of view all learning is already inside of you, know yourself, this is the real Learning System, the inner [knowledge](#).

According to the [chronology given for the construction of the Global Artificial Intelligence](#), the first phase is the development of Specific Artificial Intelligences, by Deduction or Application, so the first phase for the development of the outer application subsystem is the development of specific Application Systems as third step in the third stage in Specific Artificial Intelligences for Artificial Research by Deduction.

In turn, the specific Application System is distributed along the three stages, where the first one corresponds to the database of instructions, and the first rational supervision. The rest of the six rational supervisions (in total there will be 7 seven rational supervisions, the first one in the first stage) are done in the [second stage, to carry out the instructions](#) correctly. Finally, in the [third stage assessment](#) of the whole process involves sending reports to the Decisional System and Learning System.

The importance of the reports in the third stage of the Application System to the Decision System is due to, once a decision is completed, turn off the decision in the global project, in addition to any new decision that should be necessary in case of further decisions, for instance, after a emergency landing, even when all the instructions have been carried out correctly, what decisions are necessary once is finished.

The reports for the Learning System will have two benefits, first one, the analysis of performance level for further decisions, tracking the Learning System the whole level of efficiency of the, Specific or Global Artificial Intelligence with an, Specific or Unified, Impact of the Defect and Effective Distribution designed for that purpose, in addition to carry out the rational critiques.

In this new phase in my blog after the gap year, in addition to the three rational critiques which had been designed before the gap year, I will include more rational critiques:

- The fourth robotic rational critique, criticising how the Decisional System in the third stage attributed operations, related to factors in the equations, to robotic functions.

- The fifth psycomotriz rational critique, criticising how the second stage of the outer application sub-system attributed these robotic functions (instructions) to applications or robotic devices.

- The sixth developmental rational critique, criticising how the Artificial Engineering attributed: general maps or schemes of intelligence, programs, applications, robotic devices, to repair or create new technologies according to the needs requested by the Application System, Decision System. In general the Artificial Designer of Intelligence as database will have a database of models, sets, maps, schemes, of any intelligence, when an intelligence needs to be fixed, the second stage consists of comparing the current models, sets, maps, schemes, within its database and the current situation of that technology needing to be repaired, and finding the problem the third stage is to fix the problem. If constructing a new technology, according to the technology requested, what technology in the database is the most suitable, and in the second stage the creation of that technology requested setting up as first stage the database with the contents that this new technology needs, and finally as third stage to check if that technology as requested work for that specific task.

- The seventh learning rational critique, criticizing how efficient are the list of categories of errors or the list of categories of efficiency in any Impact of the Defect and Effective Distribution, in any stage or step, in any system or program, comparing how is the attribution of these categories and phenomena (inner or outer, depending on where are applied) and levels or performance.

Starting off with the contents of this post, the first stage in the specific Application System as outer application sub-system, I will analyse how the specific database of instructions works, how to do the first rational supervision within the specific database

of instructions, how to manage the changes in the specific database of instructions due to the contradictions found in the first rational supervision, and finally some comments about how to start the construction of the first models of specific Application System as outer application sub-system, along the two moments of experimentation and generalization, what means, during the first moment of experimentation in the first phase for the construction of the first Specific Artificial Intelligences for Artificial Research by Deduction, along with the experimentation in the rest of stages and steps in the third stage, is necessary in this first moment to experiment every single process within the Application System in order to get a very reliable Application System by the time that the moment of experimentation is about to consolidate the first designs of Specific Artificial Intelligence for Artificial Research by Deduction.

In all this process, the very foundation of the Application System as outer application sub-system, as usual, is the first stage understood as a database, in this case, a specific database of instructions, where to gather all the instructions sent by the specific Decisional System.

The Application System, as an outer application sub-system, has as its main responsibility to put into practice all the instructions made by the Decisional System. For that reason, the Decisional System is going to file every single instruction in the database of instructions as the first stage in the Application System.

It is necessary to remind the very nature of an instruction. An instruction is a robotic function to be carried out by an application or robotic device.

Every decision authorized in the Decisional System, after projection not finding contradictions or if finding partial contradictions making the necessary modifications, once the decision is transformed into a range of instructions in the third stage of the Decisional System, decision transformed into a range of instructions after analysing: what factors are in the mathematical expression of that decision, analysing what mathematical operation needs every factor, and attributing (matching again) mathematical operations into robotic functions, once the robotic functions are set up, the robotic functions to comply to complete the decision, are the instructions to be applied by the Application System.

In essence, an instruction is a robotic function to be applied by an application or robotic device.

For the completion of a decision, is necessary to complete all the robotic functions in which this decision has been distributed by the Decisional System, attributing the mathematical operations related to every factor in the mathematical expression to robotic functions.

In this sense, in fact, the database of instructions in the first stage of the Application System is a database of robotic functions to be applied by applications and robotic devices.

The database of instructions (robotic functions) is organized as a Russian Dolls System, as a positional encyclopedia, what means that every instruction is filed in the right sub-factoring level according to position (geographic criterion), within the sub-factoring level is filed in the right sub-section (subject criterion, for instance, in the same position could be done different decisions of different subjects: different programs in the same position can make decisions regarding to economy, transport, industry, surveillance, health, etc...), within the right sub-section (within the right sub-factoring level) the instructions are ordered according to priority (the highest priority decisions are first, the lower priority decisions are the last ones), and within the priority level the decisions are ordered according to time (when should be done), and order (the nth position in that range of instructions).

The responsible for the filing of every instruction in the right file in the database of instructions according to: position, subject, priority, time, and order; is the Decisional System, filling every decision in the right place in the database of instructions according to these criteria in order that once the instructions are filed to start the first rational supervision, which consists of the checking of contradictions between the decisions gathered in every position and subject, in addition to contradictions related to priority, time, and order.

The reason why the specific database of instructions must be organised as a Russian Dolls System is due to the principle or virtue of harmony, which must reign throughout any, Specific or Global, Artificial Intelligence.

All database in all Artificial Intelligence, program, application, device, for any purpose, database of data, categories, hypothesis, decisions, instructions, as well as any other possible database for any other purpose or matter, in the theory of Impossible Probability, absolutely all database regardless of any other criteria, must be organised following the same principles of organization as any other database, starting with the principle of position, going on with the principle of subject, and if necessary the principle of priority, and if necessary the principle of time and order.

The reason why absolutely all database regardless of any other matter, must keep the harmony keeping the same principles in their inner organization, is because keeping always the principle of harmony, organizing any database keeping the same principles from the outset, later processes and procedures in following phases where these databases are standardized, unified, or integrated, along with other databases, from different intelligences, programs, applications, from different levels, global, specific, particular, but having in common a purpose or objective, data, rational hypothesis, models, decisions, projects, instructions, as long as all these databases are organized keeping the principle of harmony, so keeping in their inner organization the same principles of organization, later on it is going to be easier and compatible to mix these databases from these intelligences, programs, or applications, with other related databases from different intelligences, programs, applications, in a journey which must end up with the global integration of similar databases in the integrated Global Artificial Intelligence, and beyond, the completion of the seventh and eight phases.

This process of integration, in fact, starts off from the very first phase, as long as in the first phase the organisation of the databases, in any stage or step, is done, keeping in all databases the same principles of organisation, the following phases are going to be easier to complete.

For that reason, looking forward to the virtue or principle of harmony, the database of instructions must be organised complying with the same organizational criteria as any other database in the Specific Artificial Intelligence by Deduction, being organized as a Russian Dolls System starting off with the criterion of position (sub-factoring level), within the sub-factoring level the criterion of sub-section (subject), within the subject level if suitable, in this case it is, the criterion of priority, and if suitable, and here it is, within the priority level, the criteria related to time and order.

The time criterion is about when an instruction must be done, and the order criterion is related to the nth position of an instruction within the range of instructions for the completion of a decision as long as it has been distributed a decision into instructions, by the Decisional System, so for every instruction not only time, but in the right nth position must be done.

In short, first stage of the specific Application System, as outer application sub-system, consists of a database of instructions, understanding for instruction a robotic function, where the instructions are filed according to the following criteria: position, subject, priority, time, order; keeping the same criteria as other databases (position and subject always, the rest of them only if suitable), to keep at any time the virtue or principle of harmony, between databases, regardless of their purposes or matter, what will later facilitate the following processes of: standardization, unification, integration.

The specific Decisional System is the responsible for the filing of every instruction in the right place in the database of instructions as first stage in the specific Application System as specific outer application sub-system, and once the instruction is filed, the specific Application System is responsible for the management of the first rational supervision within the Application System.

The first rational supervision consists of checking for any possible contradiction between the instructions gathered in any file according to: sub-position, sub-section, priority, time, and order.

The specific Application System must ensure that there is no contradiction between decisions to be applied in the same position, checking that there is no contradiction between all the decisions in the same sub-factoring level. When checking the lack of contradiction between instructions in the same position, checking that the lack of contradiction is a lack of contradiction between instructions of that position, regardless of the subject, subsection. For instance, in a city, there is no contradiction between an instruction about industry, and an instruction about transport, or an instruction about health, or any other one, in that position.

Here, the checking is only about contradictions in that position across all the subjects. It is supposed that if there were any contradiction between the project of that decision and any other one at any other level, this contradiction has been fixed in the Decisional

System, so in absence of contradiction between projects once the projects have been authorised, once the decisions has been distributed into instructions, now to check the project again would be a redundancy, the project has been already checked in the global project, once the project of that decision has been authorized by the global project what is necessary to check is the reliability of the instructions in which the authorized decision has been distributed by the Decisional System.

If a decision is authorised in the Decisional System, having been checked in the global project, actual project, virtual and actual evolutionary and prediction projects, and the decision is authorised because the decision is in harmony with the global project, then the decision is in harmony with any other decision in the global project because it has not got contradictions at any level from now on. Now the problem is to check if the distribution of this decision into instructions has been done properly, and there is no contradiction between instructions, and for that reason the first rational supervision of instructions to do in the first stage of the specific Application System as specific outer application sub-system is the lack of contradictions between instructions in the same position, in different subjects, and once there has not been found contradictions between instructions in the same position in different subjects, the first rational supervision must ensure that there is no contradiction between the priority order of every instruction, and there is no contradiction about the time and order in which the instruction must be done.

The checking of the priority, time, and order, is important in addition to a lack of contradiction between instructions in the same position in different subjects, because there is a possibility some instructions by the time that are filed in the specific database of instructions can be affected by changes in the database of instructions, due to other supervisions.

The database of instructions is going to live under permanent changes, the reasons why is going to have a flow of changes is due to: 1) the permanent addition of new instructions by the Decisional System, 2) the change in the priority, time, order, of some instructions due to contradictions found in rational supervisions, 3) the deletion of instructions from the database of instructions as long as the decisions are completed, so as soon as an instruction is completed must be off the database of the instructions, or in case of total contradiction between two or more instructions the deletion of that contradiction with less priority, so the less priority instructions, in case of total contradiction, are deleted from the database of instructions, and sent back to the source, in this case the specific Decisional System.

In essence the reasons for the changes in the database of instructions can be summarized as changes due to: new instructions, modification of instructions, elimination of instructions, this last one could be because the instruction is done so must be off the database, or total contradictions between instructions demand the deletion of the less priority instruction to send it back to the source to be reformulated.

The first reason for changes in the specific database of instructions is really important for the first rational supervision. Changes in the database of instructions because of the addition of new instructions can produce contradictions between the new instruction and any other already included in the database, waiting for its application. The reasons for the contradictions between new instructions and existing instructions in the database could be for different causes, one of them because the attribution of a robotic function to a mathematical operation related to a factor in an authorised decision, although the mathematical expression of that decision is right, is not right the attribution of that robotic function to that mathematical operation of that factor of that mathematical expression. In other words, the authorisation of that decision is right according to the plan, but what is not right is the attribution of robotic functions to comply with the right decision.

For that reason included within the rational critiques that I had developed before the gap year, in this new phase of my research I will include within the rational critiques another range of rational critiques, one of them the fourth robotic rational critique, criticizing how the Decisional System in the third stage attributes operations, related to factors in the equations, to robotic functions.

The first reason for contradictions in the first rational supervision between new instructions sent by the Decisional System to the database of instructions, and already included instructions in the database of instructions, is due to wrong assignation, attribution, matching, of robotic functions to the mathematical operations of the factors in the mathematical expression in a decision already authorised by the Decisional System.

The Decisional System, having passed the seven rational adjustments, or quick rational check, according to the decision, if the decision is rational, in the third stage the analysis of the mathematical operations in the factors of the mathematical equation, must end up with the correct attribution of robotic operations, but if this attribution is wrong will be

found contradictions in the following seven rational supervisions in the Application System.

One of the objectives of the rational supervisions in the Application System is to find contradictions in any of the seven rational supervisions between instructions, due to wrong assignment of robotic device, wrong assignment of priority, or wrong assignment of time and order. But this is not the only objective, because in general, the main aim is to keep the harmony, avoiding contradictions for any other reason.

Another reason for contradictions could be caused by contradictions when an instruction is done, sending reports about the negative ground conditions demanding changes in the development of an instruction, suffering changes that are going to produce a chain of contradictions with other contradictions, when at the beginning there was not any contradiction, but now due to these changes in this instruction, the changes in this instruction cause contradictions with lots of other instructions, when before there was not contradiction at all.

If a jet avoiding a hurricane according to the project, complying the instructions in which the project was done, but from one moment to another there is a change in the direction of the wind and its strength, the jet must plan as fast as possible as many changes in the way to comply with the instructions as long as these changes are happening while is happening the fifth rational supervision.

If the fifth rational supervision is being done at the same time that the instruction is being completed, and during the completion at the same time that the fifth rational supervision is being carried out, there is a change in the ground conditions demanding changes in the way to comply with the instruction, causing changes in the instruction that could cause changes in the time and order of the following instructions belonging to the same decision, at the end, a simple change in one instruction within a range of instructions, causing changes in all the range of instructions, can produce a chain reaction of changes in other instructions related to different range of instructions from different decisions, but belonging to the same sub-factoring level or sub-section, or are going to suffer changes in the time and order in which they are going to be managed, as long as the chain reaction of changes can have secondary changes in unpredictable decisions and their corresponding range of instructions.

If a jet flying from Los Angeles to London must make an immediate change in any instruction, this could have collateral consequences in many other instructions, and all these changes in the priority, time, or order to comply with these instructions according to the new changes, are changes that must be registered in the database of instructions, so the first rational supervision in the database of instructions at any time that there is a change because of: the addition, modification, deletion; of any instruction, the change must be registered comparing how this change due to addition, modification, deletion, of any instruction can produce new contradictions to be solved.

In reality the database of instructions is not static, is a flow of instructions and a flow of changes in the flow of instructions, so the first rational supervision is going to be permanent, not static, because there are going to be changes (additions, modifications, deletions) permanently demanding permanent supervision of the consequences of these changes to avoid contradictions due to the new changes.

In order to study how to: the Decisional System files every instruction in the database of instructions as first stage in the Application System as outer application sub-system, how to permanently do the first rational supervision at any time that there is a change in the database of instructions due to the addition of new instructions, the modification of any existing instruction, or the deletion of existing instructions, modification and deletion of instructions which can be caused by the rest of six rational supervisions done in the second stage of the Application System, changes that can be caused by multiple factors, some of them because of a wrong attribution of mathematical operations to robotic functions in the third stage of the Decisional System, but others because of a wrong attribution of instructions to applications or robotic devices in the second stage in the Application System, and others because of changes in the ground conditions by the time that the instructions should be applied, causing changes in the priority, order, time, in which the instructions should be done, or even causing the deletion of an instruction (a jet flying from Los Angeles to London, suddenly crossing a heavy storm obligating the jet to make very fast changes in the route to avoid the storm, changes that should be communicated to other intelligences and programs, from other airports or jets in the same location, to avoid accidents), producing a chain reaction of changes in other instructions belonging to the same range of instructions of the same decision, from the same intelligence or program or from other intelligences or programs.

In this first phase for instance, if the Specific Artificial Intelligence of a jet flying from Los Angeles to London avoided a hurricane, must make fast decisions to transform very quickly in instructions, all this chain of changes in the project, can produce a chain

reaction of changes in other decisions on the jet, for instance, decisions related to the service on board, if the flight assistants can or cannot provide meals and beverage to the passengers, or if the passengers are allowed to use the toilet while avoiding the hurricane, or even, further changes in further decisions if the jet must effectuate an emergency landing as soon as arrives England.

In this first phase based only on Specific Artificial Intelligence, in absence of a Global Artificial Intelligence, the way in which the Specific Artificial Intelligence of this jet must work, is collaborating with the rest of Specific Artificial Intelligences which can be affected by these changes in the plan of this jet, so the Specific Artificial Intelligence of this jet flying from Los Angeles to London must communicate any change in the plan to the rest of Specific Artificial Intelligences affected by these changes in order that these others can effectuate changes in their corresponding plans, models and projects, and instructions, to avoid an accident.

The experimentation of how different Specific Artificial Intelligences can work together, for instance when a jet from Los Angeles to London avoiding a hurricane must make changes in the plan communicating to the rest of Specific Artificial Intelligences these changes, in order that these others can adapt their plans to these changes, is essentially an experiment about how different Specific Artificial Intelligences can work together, advancing in this direction to the second phase, what is going to allow to make possible the third stage as soon as possible, even faster than we initially could think about the chronology for the construction of the first standardized Global Artificial Intelligence.

Experimentation firstly in how to work independently and with great autonomy an Specific Artificial Intelligence, is the door for the next phase, how a very independent and autonomous Specific Artificial Intelligence can collaborate with other very independent and autonomous Specific Artificial Intelligences in the second phase, so by the time that these phases are completed, the possibility that highly independent and autonomous Specific Artificial Intelligences transformed now as specific programs can work altogether with the Artificial Research by Deduction in the Global Artificial Intelligence as global program.

[Experimentation](#) in the first phase in Specific Artificial Intelligences by Deduction and by Application, later on the second phase experimenting [how Specific Artificial Intelligences can collaborate together](#), between two or more Specific Artificial Intelligences by Deduction, between two or more Specific Artificial Intelligences by

Application, and two or more Specific Artificial Intelligences by Deduction collaborating with two or more Specific Artificial Intelligences by Application, what is going to end up in the creation of the foundations for the development in the third phase of the first standardized Global Artificial Intelligence, able to collaborate with Specific Artificial Intelligences by Application firstly, and secondly able to collaborate with the [Unified Application](#), and finally with the particular programs, the particular applications, and particular programs for particular applications, getting ready everything for the sixth phase, the integration of everything in the final Global Artificial Intelligence.

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